

*What Is Claimed Is*

*Claims*

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5 1. Sterilisable composite film containing a barrier layer that is impermeable to water vapour and gases in the form of a metal foil, and on both sides of the barrier layer at least one functional layer,

characterised in that,

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the composite film exhibits a layer structure containing one on top of the other:

a) a first functional layer containing a plastic film of the polyester, polyamide or poly-olefin type or an extrusion layer of polyolefins or one or more lacquer layers or print and lacquer layers or print layers and

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b) a metal foil and

c) a second functional layer in the form of a plastic film of the coextrusion coated, coextruded and/or extrusion laminated/polyamide/polypropylene film type.

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2. Sterilisable composite film according to claim 1, characterised in that the plastic layer,

layer c), exhibits a layer arrangement comprising coextrusion coated, coextruded and/or extrusion laminated bonding agent/ polyamide/ bonding agent/ polypropylene, where layer c) lies over the free surface of the first layer of bonding agent on the metal foil, layer b)

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3. Sterilisable composite film according to claim 2, characterised in that the plastic layer, layer c), exhibits a layer type structure with one layer superimposed over the other, comprising coextruded bonding agent and polyamide and extruded bonding agent and laminate bonded polypropylene film, whereby layer c) lies on the free side of the coextruded bonding agent layer on the metal foil, layer b).

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4. Sterilisable composite film according to claim 1, characterised in that the plastic layer, layer c), exhibits a layer type structure with one layer superimposed over the other, comprising laminate adhesive and laminate bonded a polyamide/ bonding agent/ poly-propylene film, whereby the laminate adhesive layer lies on the metal foil, layer b).

5. Sterilisable composite film according to claim 2, characterised in that the plastic layer, layer c), exhibits a layer type structure with one layer superimposed over the other, comprising bonding agent, laminate bonded polyamide film, extruded bonding agent and laminate bonded polypropylene film, whereby the first extruded bonding agent layer lies on the metal foil, layer b).
10. Sterilisable composite film according to claim 2, characterised in that the plastic layer, layer c) exhibits a layer type structure with one layer superimposed over the other, comprising coextrusion coated bonding agent, polyamide, bonding agent and poly-propylene, whereby the first bonding agent layer lies on the metal foil, layer b).
15. Sterilisable composite film according to claim 2, characterised in that the plastic layer, layer c) exhibits a layer type structure with one layer superimposed over the other, comprising coextrusion, coextruded and/or extrusion laminated bonding agent with a thickness of 3 to 15 µm/ polyamide with a thickness of 10 to 40 µm/ bonding agent with a thickness of 3 to 15 µm/ polypropylene with a thickness of 30 to 70 µm.
20. Sterilisable composite film according to claim 1, characterised in that the composite film exhibits a layer type structure containing in sequence:
  - a) a first functional layer containing a plastic film of the polyester, polyamide or poly-olefin type or an extrusion layer of polyolefins or one or more lacquer layers or print and lacquer layers or print layers and
  - b) a metal foil and
  - c) a plastic layer having a layer type of structure comprising coextrusion coated, coextruded and/or extrusion laminated polypropylene/ polyamide/ polypropylene.
25. Sterilisable composite film according to claim 8, characterised in that the, layer c) is a plastic film exhibiting a layer type structure comprising coextrusion coated, co-extruded and/or extrusion laminated polypropylene/ bonding agent/ polyamide/ bond-ing agent/ polypropylene.
30. Sterilisable composite film according to claim 8, characterised in that the plastic layer, layer c) exhibits a layer type structure with one layer superimposed over the other, comprising laminate adhesive and laminate bonded a film of polypropylene/ bonding agent/ polyamide/ bonding agent/ polypropylene, whereby layer c) lies on the laminate adhesive layer on the metal foil, layer b).

11. Sterilisable composite film according to claim 8, characterised in that the plastic layer, layer c) exhibits a layer type structure with one layer superimposed over the other, comprising coextrusion coated polypropylene, bonding agent, polyamide, bonding agent and polypropylene, whereby the first polypropylene layer lies on the metal foil, layer b).

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12. Sterilisable composite film according to claim 8, characterised in that layer c) is a plastic layer with a layer structure of coextrusion coated or coextruded and/or extrusion laminated polypropylene with a thickness of 10 to 20 µm/ bonding agent  
10 with a thickness of 3 to 15 µm/ polyamide with a thickness of 10 to 40 µm/ bonding agent with a thickness of 3 to 15 µm/ propylene with a thickness of 30 to 70 µm.

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13. Sterilisable composite film according to claim 1, characterised in that between the plastic layer, layer c), and the metal foil, layer b), a laminate adhesive is provided in an amount from 0.5 to 10 g/m<sup>2</sup>, preferably 1 to 6 g/m<sup>2</sup>, or a bonding agent, preferably with a thickness of 0.5 to 15 µm, preferably 3 to 15 µm.

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14. Pouch type of packaging made from a sterilisable composite film according to claim 1.

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